Aman Agrawal

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SKILLS

Languages: Java, C++, C, Kotlin, Python.
Courses: Data Structures and Algorithms, OS, DBMS, OOPS.
Tools/Frameworks: MongoDB, MySQL, Android, XML.
Platforms: Visual Studio Code, Intellij IDEA, Android Studio, GitHub.
Soft Skills: Excellent Communication, Collaboration, Project Management, Leadership.

TRAINING

HitBullsEye (Edtech Company) Jun' 24 – Jul' 24
Data Structures and Algorithms / Competitive Programming

- Strengthened problem-solving skills in Data Structures and Algorithms and Competitive Programming, enhancing coding efficiency and accuracy.
- Practiced and optimized algorithms for sorting, searching, dynamic programming, and graph traversals, improving speed by 20-25%.
- Participated in coding contests and solved 500+ problems on platforms like LeetCode, Codeforces, GFG, refining analytical thinking. Rank among top 35% leetcoders worldwide.

PROJECTS

Waves Of Food – Android-Based Food Ordering App - GitHub Dec' 24

- Designed and developed the frontend of a food ordering app, enhancing user experience and engagement.
- Built 5+ intuitive UI screens, ensuring seamless sign-up, cuisine exploration, cart management, and real-time order tracking.
- Reduced UI load time by ~40% using optimized Kotlin and XML layouts, improving responsiveness.
- Implemented error handling & UI state management, reducing app crashes by 30% in testing.
- **Technologies used:** Android Studio, Kotlin, XML.

Parkinson's Prediction Model - GitHub Aug' 24

- Developed a machine learning model to predict Parkinson's Disease progression and UPDRS scores using the Parkinson's Telemonitoring dataset.
- Improved prediction accuracy by 15% using AdaBoost (Decision Tree) with an R^2 score of 0.9882 and TensorFlow Keras Dense (5 layers) with an R^2 score of 0.9787.
- Reduced feature space by 40% through Principal Component Analysis (PCA), improving model efficiency.
- **Technologies used:** Python, Supervised Learning, scikit-learn, PCA.

N-Queens Visualizer - GitHub Mar' 24

- Built an interactive web application showcasing the N-Queens problem using a backtracking algorithm.
- Implemented real-time board updates & step-by-step logging, improving algorithm debugging efficiency by 50%.
- Optimized backtracking algorithm, reducing execution time by ~30% for larger board sizes (N = 1 to 20).
- Designed a scalable & interactive UI, allowing users to control, start, and observe the solving process dynamically
- **Technologies used:** HTML, CSS, JavaScript, Recursion, Backtracking.

CERTIFICATES

Cloud Computing | NPTEL Nov' 24

- Verified completion of the Cloud Computing program from NPTEL SWAYAM.

Introduction to MongoDB for Students | MongoDB Jun' 24

- Certified by MongoDB, demonstrating proficiency in Database.

Object Oriented Programming | iamneo Jan' 24

- Certified by iamneo, demonstrating proficiency in OOP principles and design patterns.

EDUCATION

Lovely Professional University Phagwara, Punjab
Bachelor of Technology Aug' 22 – Present
Computer Science and Engineering | CGPA: 8.97 (Top 1%)